

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Robert Kuremund Examiner #: 65022 Date: 2/25/02
 Art Unit: 1765 Phone Number 308-1091 Serial Number: 09/824965
 Mail Box and Bldg/Room Location: CPB-3-10304 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Litigation search patent number 6,007,622 12/26/99

Inventors: *Tamchiro Kawase*
Masumi Tatsumi

No Litigation Found

STAFF USE ONLY

Searcher: Mellison

Searcher Phone #: 308-4483

Searcher Location: _____

Date Searcher Picked Up: 2/25/02

Date Completed: 2/25/02

Searcher Prep & Review Time: _____

Clerical Prep Time: _____

Online Time: 10

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog _____

Questel/Orbit 31.88

Dr.Link _____

Lexis/Nexis 40.00

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

?US6007622/PN

** SS 1: Results 1

Search statement 2

?PRT FULL NONSTOP LEGALALL

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US6007622 A 19991228 [US6007622]

TI - (A) Method of preparing group III-V compound semiconductor crystal

FA - (A) SUMITOMO ELECTRIC INDUSTRIES (JP)

IN - (A) KAWASE TOMOHIRO (JP); TATSUMI MASAMI (JP)

AP - US84312497 19970425 [1997US-0843124]

PR - JP10700996 19960426 [1996JP-0107009]

IC - (A) C30B-011/04

EC - C30B-011/00 C30B-029:40

- C30B-011/00 C30B-029:42

PCL - ORIGINAL (O) : 117082000; CROSS-REFERENCE (X) : 117004000 117006000
117007000 117083000 117953000

DT - Corresponding document

CT - US4999082; US5131975; US5515810; EP0529963; JP60-210599; JP01037833;
JP64-79087; JP02034597; JP2-74597; JP3-252399- Journal of Japanese Association of Crystal Growth, Y. Okabe et al.
Undoped Semi-Insulating GaAs Single Crystals Grown by VGF Method, vol.
18, 1991, pp. 88-95."Low dislocation density and low residual strain semi insulating GaAs
grown by vertical boat method". Kawase, T. (Apr. 1996).

STG - (A) United States patent

AB - A method is provided for preparing, with high reproducibility, a
carbon-doped group III-V compound semiconductor crystal having
favorable electrical characteristics and having impurities removed
therefrom, and in which the amount of doped carbon can be adjusted
easily during crystal growth. This method includes the steps of:
filling a crucible with compound raw material, solid carbon, and boron
oxide; sealing the filled crucible gas impermeable material; heating
and melting the compound raw material under the sealed state in the
airtight vessel; and solidifying the melted compound raw material to
grow a carbon-doped compound semiconductor crystal.

1/1 LGST - (C) LEGSTAT

PN - US 6007622 [US6007622]

AP - US 843124/97 19970425 [1997US-0843124]

DT - US-P

ACT - 19970425 US/AE-A

APPLICATION DATA (PATENT)

{US 843124/97 19970425 [1997US-0843124]}

- 19991228 US/A

PATENT

- 20010717 US/RF

REISSUE APPLICATION FILED

20010403

Kendra Mellerson EIC 1700 308-4483

- 20011127 US/CC
CERTIFICATE OF CORRECTION
UP - 2001-51

1/1 CRXX - (C) CLAIMS/RRX
PN - 6,007,622 A 19991228 [US6007622]
PA - Sumitomo Electric Industries Ltd JP
ACT - 20010403 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010717
REISSUE REQUEST NUMBER: 09/824965
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1765

Reissue Patent Number:

- 20011218 CERTIFICATE OF CORRECTION

1/2 PAST - (C) PAST
AN - 200151-000601
PN - 6007622 A [US6007622]
OG - 2001-12-18
ACT - CERTIFICATE OF CORRECTION

2/2 PAST - (C) PAST
AN - 200129-001177
PN - 6007622 A [US6007622]
OG - 2001-07-17
ACT - REISSUE APPLICATION FILED

Search statement 2

?FILE INPADOC

PLUSPAT - Time in minutes : 0,92
The cost estimation below is based on Questel's
standard price list

| | |
|-----------------------------------------------|----------|
| Estimated cost : | 2.02 USD |
| Records displayed and billed : 1 | |
| Estimated cost : | 1.10 USD |
| Cost estimated for the last database search : | 3.12 USD |
| Estimated total session cost : | 3.70 USD |

LGST - Time in minutes : 0,07
The cost estimation below is based on Questel's
standard price list

| | |
|-----------------------------------------------|----------|
| Estimated cost : | 0.07 USD |
| Records displayed and billed : 1 | |
| Estimated cost : | 0.57 USD |
| Cost estimated for the last database search : | 0.64 USD |
| Estimated total session cost : | 4.34 USD |

CRXX - Time in minutes : 0,09

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The cost estimation below is based on Questel's standard price list

| | |
|-----------------------------------------------|----------|
| Estimated cost : | 0.13 USD |
| Records displayed and billed : | 1 |
| Estimated cost : | 5.00 USD |
| Cost estimated for the last database search : | 5.13 USD |
| Estimated total session cost : | 9.47 USD |

PAST - Time in minutes : 0,06

The cost estimation below is based on Questel's standard price list

| | |
|-----------------------------------------------|-----------|
| Estimated cost : | 0.11 USD |
| Records displayed and billed : | 2 |
| Estimated cost : | 11.22 USD |
| Cost estimated for the last database search : | 11.33 USD |
| Estimated total session cost : | 20.80 USD |

LITA - Time in minutes : 0,01

The cost estimation below is based on Questel's standard price list

| | |
|-----------------------------------------------|-----------|
| Estimated cost : | 0.01 USD |
| Cost estimated for the last database search : | 0.01 USD |
| Estimated total session cost : | 20.81 USD |

NOT NEGATIVE

Selected file: INPADOC

You are now connected to INPADOC
Covers 1968/1973 thru weekly updates (2002-07)
For information on content, ..INFO INPD.

Search statement 1

?FAM US6007622/PN

1 Patent Groups
** SS 1: Results 4

Search statement 2

?FAMSTATE NONSTOP

1/4 INPADOC - (C) INPADOC
PN - EP 803593 A1 19971029 [EP-803593]
TI - METHOD OF PREPARING GROUP III-V COMPOUND SEMICONDUCTOR CRYSTAL
LA - ENG
IN - KAWASA TOMOHIRO [JP]; TATSUMI MASAMI [JP]
PA - SUMITOMO ELECTRIC INDUSTRIES [JP]
AF - EP 97106815/97-A 19970424 [1997EP-0106815]
PR - JP 107009/96-A 19960426 [1996JP-0107009]
IC - C30B-011/00; C30B-029/40; C30B-029/42
DS - DE* FR* GB*

1/1 LEGALI - (C) LEGSTAT
PN - EP 803593 [EP-803593]
AP - EP 97106815/97 19970424 [1997EP-0106815]
DT - EP-P

Kendra Mellerson EIC 1700 308-4483

ACTE- 19970424 EP/AE-A
EP-APPLICATION
{EP 97106815/97 19970424 [1997EP-0106815]}
- 19971029 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
DE FR GB
- 19971029 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT
- 19971217 EP/17P [+]
REQUEST FOR EXAMINATION FILED
971017
- 19991208 EP/17Q [+]
FIRST EXAMINATION REPORT
19991026
- 20000112 EP/FIN1
INVENTOR (CORRECTION)
KAWASE, TOMOHIRO, SUMITOMO ELECTRIC IND., LTD. * TATSUMI, MASAMI,
SUMITOMO ELECTRIC IND., LTD.
UP - 2000-02

2/4 INPADOC - (C) INPADOC
PN - JP 3201305 B2 20010829 [JP3201305]
AP - JP 106115/97-A 19970423 [1997JP-0106115]
PR - JP 106115/97-A 19970423 [1997JP-0106115]
- JP 107009/96-A 19960426 [1996JP-0107009]
IC - C30B-029/40; C30B-011/00; C30B-029/42

3/4 INEADOC - (C) INPADOC
PN - JP 10036197 A2 19930210 [JP10036197]
TI - PRODUCTION OF III-V COMPOUND SEMICONDUCTOR CRYSTAL
IN - KAWASE TOMOHIRO; TATSUMI MASAMI
PA - SUMITOMO ELECTRIC INDUSTRIES
AP - JP 106115/97-A 19970423 [1997JP-0106115]
PR - JP 106115/97-A 19970423 [1997JP-0106115]
- JP 107009/96-A 19960426 [1996JP-0107009]
IC - C30B-029/40; C30B-011/00; C30B-029/42

4/4 INPADOC - (C) INPADOC
PN - US 6007622 A 19991223 [US6007622]
TI - METHOD OF PREPARING GROUP III-V COMPOUND SEMICONDUCTOR CRYSTAL
IN - KAWASE TOMOHIRO [JP]; TATSUMI MASAMI [JP]
PA - SUMITOMO ELECTRIC INDUSTRIES [JP]
AP - US 843124/97-A 19970425 [1997US-0843124]
PR - JP 107009/96-A 19960426 [1996JP-0107009]
IC - C30B-011/04

1/1 LEGALI - (C) LEGSTAT
PN - US 6007622 [US6007622]
AP - US 843124/97 19970425 [1997US-0843124]
DT - US-P
ACTE- 19970425 US/AE-A
APPLICATION DATA (PATENT)
{US 843124/97 19970425 [1997US-0843124]}
- 19991228 US/A
PATENT

- 20010717 US/RF
REISSUE APPLICATION FILED
20010403
- 20011127 US/CC
CERTIFICATE OF CORRECTION
UP - 2001-51

Search statement 2

PATNO IS 6007622

DATE: FEBRUARY 25, 2002
LIBRARY: PATENT
FILE: ALL

Your search request is:
PATNO IS 6007622

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 6,007,622, Dec. 28, 1999, Method of preparing group III-V compound semiconductor crystal, Kawase, Tomohiro, Hyogo, Japan Tatsumi, Masami, Hyogo, Japan, Sumitomo Electric Industries, Ltd., Osaka, Japan (03)

CORE TERMS: carbon, crystal, compound, boron, oxide, semiconductor, raw material, preparing, crucible, carbon-doped...

LEVEL 1 - 1 OF 1 PATENT

6,007,622

<=2> GET 1st DRAWING SHEET OF 7

Dec. 28, 1999

Method of preparing group III-V compound semiconductor
crystal

REISSUE: Reissue Application filed Apr. 3, 2001 (O.G. Jul. 17, 2001) Ex. Gp.:
1765; Re. S.N. 09/824,965

CERTCORR: Nov. 27, 2001 a Certificate of Correction was issued for this patent
(O.G. Dec. 18, 2001)

CORE TERMS: carbon, crystal, compound, boron, oxide, semiconductor, raw
material, preparing, crucible, carbon-doped...

6007622 OR 6,007,622

Your search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

6007622 OR 6,007,622

Your search request has found no CASES.

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.